## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 50 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.10  $\mu$ m; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 100 to 160 Å; and an activation volume (V<sub>act</sub>) of 0.01 to 0.07E-4  $\mu$ m<sup>3</sup>; and a squareness ( $\sigma$ r/ $\sigma$ s) of 0.52 to 0.55.
- 2. (Original) Spindle-shaped magnetic alloy particles containing Fe and Co as main components according to claim 1, which have a cobalt content of 20 to 45 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.08  $\mu$ m; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 110 to 160 Å; and an activation volume (V<sub>act</sub>) of 0.015 to 0.07E-4  $\mu$ m<sup>3</sup>.
- 3. (Original) Spindle-shaped magnetic alloy particles containing Fe and Co as main components according to claim 1, which further have an average minor axis diameter of 0.008 to 0.020  $\mu$ m; and an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1.
- 4. (Original) Spindle-shaped magnetic alloy particles containing Fe and Co as main components according to claim 1, which further have a rotational hysteresis integral value (Rh) of not more than 1.0.

- 5. (Original) Spindle-shaped magnetic alloy particles containing Fe and Co as main components according to claim 1, which further have a saturation magnetization value of 100 to 150 Am<sup>2</sup>/kg; and a rotational hysteresis integral value (Rh) of not more than 1.0.
- 6. (Currently Amended) Spindle-shaped magnetic alloy particles containing Fe and Co as main components according to claim 1, which further have a BET specific surface area value of 40 to 75 m<sup>2</sup>/g; and a squareness ( $\sigma r/\sigma s$ ) of 0.52 to 0.55.
- 7. (Original) A magnetic recording medium comprising a non-magnetic substrate, and a magnetic layer formed on the non-magnetic substrate, which comprises the spindle-shaped magnetic alloy particles containing Fe and Co as main components as defined in claim 1, and a binder resin.
- 8. (Original) A magnetic recording medium according to claim 7 which has a coercive force value Hc of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a squareness (Br/Bm) of not less than 0.82; an orientation degree of not less than 2.0; an oxidation stability (ΔBm) of less than 8%; and a surface roughness Ra of not more than 8 nm.
- 9. (Currently Amended) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 45 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.08  $\mu$ m; an average minor axis diameter of 0.008 to 0.020  $\mu$ m; an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1; a coercive force value of 159.2 to

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238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 110 to 160 Å; and an activation volume ( $V_{act}$ ) of 0.01 to 0.07E-4  $\mu$  m<sup>3</sup>; and a squareness ( $\sigma$ r/ $\sigma$ s) of 0.52 to 0.55.

- 10. (Currently Amended) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 50 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.10  $\mu$ m; an average minor axis diameter of 0.008 to 0.020  $\mu$ m; an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 100 to 160 Å; an activation volume (V<sub>act</sub>) of 0.01 to 0.07E-4  $\mu$ m<sup>3</sup>; and a rotational hysteresis integral value (Rh) of not more than 1.0; and a squareness ( $\sigma$ r/ $\sigma$ s) of 0.52 to 0.55.
- 11. (Currently Amended) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 50 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.10  $\mu$ m; an average minor axis diameter of 0.008 to 0.020  $\mu$ m; an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a saturation magnetization value of 100 to 150 Am<sup>2</sup>/kg; a crystallite size of 100 to 160 Å; an activation volume (V<sub>act</sub>) of 0.01 to 0.07E-4  $\mu$ m<sup>3</sup>; and a rotational hysteresis integral value (Rh) of not more than 1.0; and a squareness ( $\sigma$ r/ $\sigma$ s) of 0.52 to 0.55.
- 12. (Original) A magnetic recording medium comprising a non-magnetic substrate, and a magnetic layer formed on the non-magnetic substrate which comprises

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the spindle-shaped magnetic alloy particles containing Fe and Co as main components as defined in claim 1, said magnetic recording medium having a coercive force Hc of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a squareness (Br/Bm) of not less than 0.82; an orientation degree of not less than 2.0; an oxidation stability  $\Delta$ Bm of less than 8%; and a surface roughness Ra of not more than 8 nm.

- 13. (Currently Amended) A magnetic recording medium comprising a non-magnetic substrate, and a magnetic layer formed on the non-magnetic substrate which comprises a binder resin and spindle-shaped magnetic alloy particles containing Fe and Co as main components as defined in claim 1 which have a cobalt content of 20 to 50 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.08  $\mu$ m; an average minor axis diameter of 0.008 to 0.020  $\mu$ m; an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 110 to 160 Å; an activation volume (V<sub>act</sub>) of 0.01 to 0.07E-4  $\mu$ m<sup>3</sup>; and a squareness ( $\sigma$ r/ $\sigma$ s) of 0.52 to 0.55, said magnetic recording medium having a coercive force Hc of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a squareness (Br/Bm) of not less than 0.82; an orientation degree of not less than 2.0; an oxidation stability  $\Delta$ Bm of less than 8%; and a surface roughness Ra of not more than 8 nm.
- 14. (New) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 50 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.10  $\mu$ m; a coercive force value of

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159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 100 to 160 Å; an activation volume ( $V_{act}$ ) of 0.01 to 0.07E-4  $\mu$ m<sup>3</sup>; and a rotational hysteresis integral value (Rh) of not more than 1.0.

15. (New) Spindle-shaped magnetic alloy particles containing Fe and Co as main components, having a cobalt content of 20 to 45 atm%, calculated as Co, based on whole Fe; an average major axis diameter (L) of 0.03 to 0.08  $\mu$ m; an average minor axis diameter of 0.008 to 0.020  $\mu$ m; an aspect ratio (average major axis diameter/average minor axis diameter) of 3:1 to 8:1; a coercive force value of 159.2 to 238.7 kA/m (2,000 to 3,000 Oe); a crystallite size of 110 to 160 Å; and an activation volume (V<sub>act</sub>) of 0.01 to 0.07E-4  $\mu$ m³; and a rotational hysteresis integral value (Rh) of not more than 1.0.